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TITLE : RUBBER COMPOSITION FOR INNER LINER

ABSTRACT : PROBLEM TO BE SOLVED: To obtain the subject rubber composition capable of exhibiting excellent rubber physical properties and low air permeability by compounding a rubber component with a plate-like mica having a specific aspect ratio at a specific ratio.

SOLUTION: This rubber composition comprises a compound of (A) 100 pts.wt% rubber component with (B) 10-50 pts.wt. plate-like mica having 50-100 aspect ratio. The component A includes natural rubber or butyl-based rubber such as halogenated butyl rubber. The component B includes preferably sericite, muscovite or kaolinite. It is preferable in viewpoint excellent in tensile strength that the component B comprises 40-50 wt.% silicon dioxide, 30-40 wt.% aluminum oxide, 1-5 wt.% ferric oxide and 8-12 wt.% potassium oxide. The rubber composition is obtained by kneading and vulcanizing the component A and the component B. Inner liner of tire excellent in rubber physical property and low air permeability even if the structure consists of one layer can be provided thereby.

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